

**Listing of Claims:**

1. (Currently amended) A method of determining the position of an object in an image,  
the method comprising:

providing a pattern of marking elements that are not visibly evident individually  
in the image;

attaching the ~~wherein a~~ pattern of marking elements, ~~which are not visibly~~  
evident individually in the image, ~~is attached~~ to the object that is being imaged; and  
obtaining the image.

2. (Previously presented) A method as claimed in claim 1, wherein the position of the marking elements in the image is determined by a correlation of the image with at least one filter image of the pattern of the marking elements.

3. (Previously presented) A method as claimed in claim 2, wherein the filter image of the pattern is transformed relative to the actual pattern of the marking elements.

4. (Previously presented) A method as claimed in claim 1, wherein the image is generated by means of radioscopy, and the marking elements exhibit a low absorption of the X-rays, the effect of which lies within the noise level of the X-ray image.

5. (Previously presented) A method as claimed in claim 1, wherein the position of at least one further object is determined in the image, wherein a second pattern of marking elements, which do not show up individually in the image, is attached to the further object, and wherein the second pattern is different from the first pattern.

6-8. (Cancelled)

9. (Currently amended) An X-ray system, comprising  
an X-ray source generating a ray path;  
an X-ray detector, which is disposed in the ray path of the X-ray source;  
at least one marking devicemeans for attachment to an object in order to  
determine the position of the object in an X-ray image, wherein the marking devicemeans  
comprises marking elements, which are not visibly evident individually in the X-ray  
image; and  
a data processing unit for calculation of the position of the marking elements of  
the marking devicemeans in an image generated with the X-ray system.
10. (Previously presented) An X-ray system as claimed in claim 9, wherein it is set up to  
implement a method as claimed in claim 1.
11. (Previously presented) The X-ray system as claimed in claim 9, wherein said marking  
elements are arranged in a pattern.
12. (Currently amended) The X-ray system as claimed in claim 119, wherein said pattern  
is a two dimensional, cyclical binary maximum length sequence.
13. (Previously presented) The X-ray system as claimed in claim 9, wherein said marking  
elements are applied to a transparent carrier.
14. (New) A method as claimed in claim 1, wherein the image is an X-ray, and wherein  
the pattern of marking elements is remote from an X-ray detector and an X-ray source.
15. (New) An X-ray system as claimed in claim 9, wherein the marking device is remote  
from the X-ray detector and the X-ray source.

16. (New) The X-ray system of claim 15, further comprising another marking device remote from the X-ray detector, the X-ray source and the marking device, wherein the another marking device comprises other marking elements that are not visibly evident individually in the X-ray image, and wherein the another marking device is attached to a patient adjacent to the object.

17. (New) A method as claimed in claim 1, wherein the pattern of marking elements are not visibly evident individually in the image without performing an image processing step to remove the pattern from the image.

18. (New) A method as claimed in claim 1, further comprising providing the pattern of marking elements with at least one of a size, a shape, and a material that renders the marking elements not visibly evident individually in the image.

19. (New) An X-ray system as claimed in claim 9, wherein the marking elements are not visibly evident individually in the image without performing an image processing step to remove the pattern from the image.

20. (New) An X-ray system as claimed in claim 9, wherein the marking elements have at least one of a size, a shape, and a material that renders the marking elements not visibly evident individually in the X-ray image.